

Agriculture

Conveyors

Fans/Ventilation

Grain Dryers

Irrigation Systems

Pumps

+More!



Featured Product

M3712

Single Phase
DC Bus Power Supply

- 3-phase power is not always available.
- Bonitron allows 3-phase drives to operate from a single phase source without derating.

BONITRON



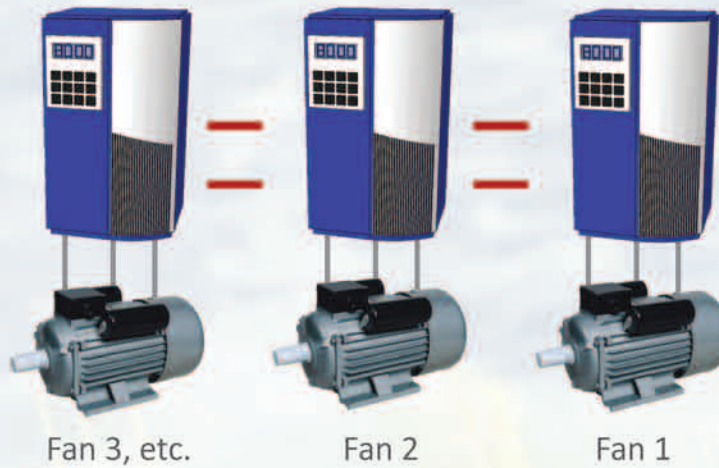
Fans

In addition to allowing 3-phase drives to be used on a single phase source, Bonitron M3712 units allow multiple drives to be tied to a common DC bus to allow multiple drives to share a common (M3712) power supply. This reduces overhead thanks to smaller component counts and energy savings.

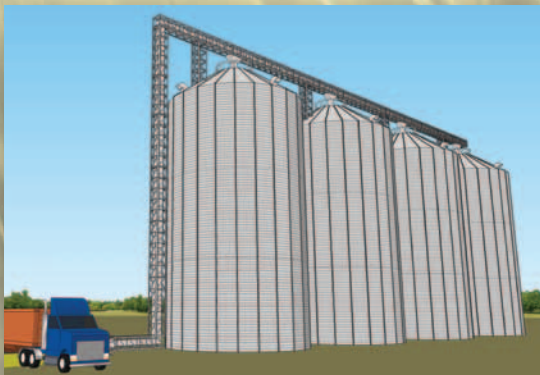


Typical Applications

Fans serve an array of functions in the agriculture industry. Some simply aid in cooling livestock, while others aerate grain and provide proper ventilation in various facilities.



Conveyors



Conveyors are common in the agriculture industry, as they transport materials from one location to another. Examples include moving grain into and out of the dryer, into the silo, as well as moving hay into a loft or storage facility.

Bonitron M3712 Single Phase Common Bus Power Supplies allow you to power one or multiple conveyors by tying multiple drives to a common DC bus for maximum efficiency and reduced component count and cost.



Bonitron.com



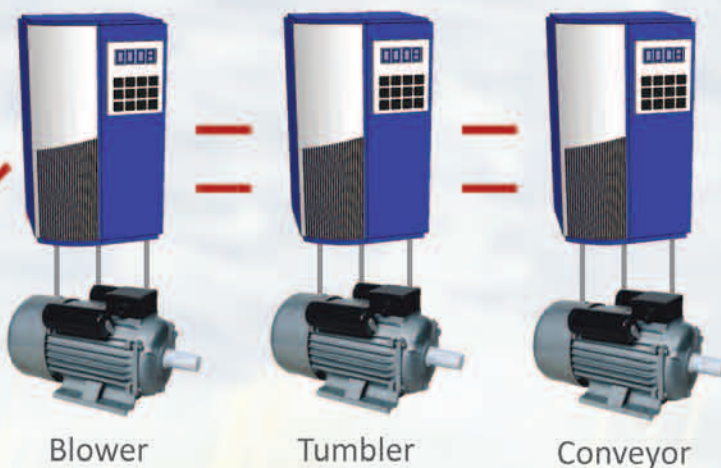
615-244-2825



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Grain Dryers

Grain dryers consists of multiple motor-driven components including conveyors, tumblers, and fans that work together in order to dry grain. Variable speed drives are commonly used to adjust the speed of the components.

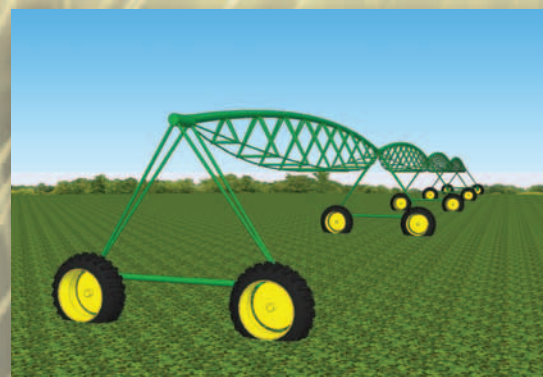


Irrigation Systems



Possibly the largest factor in producing a successful harvest directly correlates to how well crops are irrigated. Water is not always available where it is needed, therefore irrigation systems are essentially a must. While there are several styles, most share the same concept of pumping water from a source and distributing it to the crops.

This process uses multiple motors. Some pump the water throughout the swing arm, while other motors drive the wheels that move the swing arm across the field.



Society would not exist as it does today if agriculture had not advanced and adopted new technologies as time progressed. The whole industry has become more efficient and streamlined to stay competitive and profitable. One way this evolution has taken place is first by the adaptation of electric motors and second by using variable frequency drives to further cut energy usage. Drivers increase efficiency by controlling the speed at which motors operate.

Since not all drives are designed for single phase operation, Bonitron has created the M3712 Single Phase Power Supply that takes a single phase AC input and outputs DC to power standard 3-phase drives via the DC bus connections.

Single Phase Power Supply

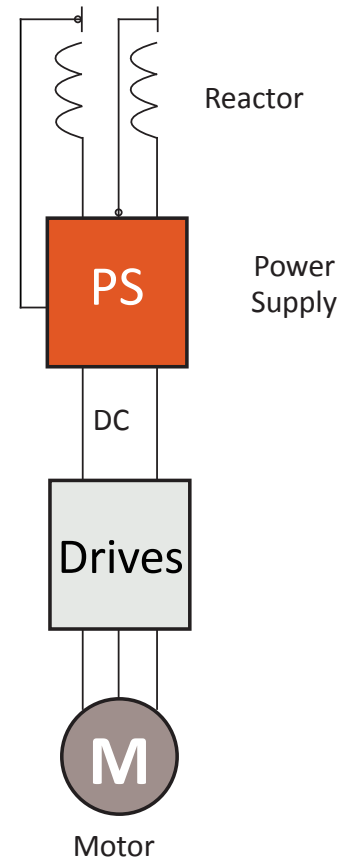
Efficiently Power 3-Phase Drives from a Single Phase Source



M3712 Series

- No derating or drive upsizing required
- For use with single or multiple drives
- Integrated precharge and soft start up for increased reliability and drive life
- Adds bus capacitance
- Learn more at bonitron.com/M3712.html

Single Phase AC



Additional Solutions



AC Drives



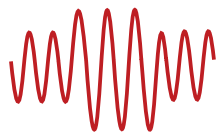
Common Bus

Single Phase Power Supplies
3-Phase Power Supplies
Common Bus Sharing Diodes
Isolation Diodes
Bus Filter Capacitance



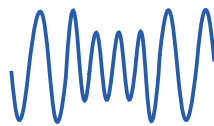
Maintenance

Capacitor Formers
Capacitor Testers



Overvoltage

Braking Transistors
Braking Resistors
Line Regeneration
Braking for Servo Drives



Undervoltage

Uninterruptible Power for Drives
(DC Bus Ride-Thru)
Voltage Regulators
Chargers and Dischargers
Energy Storage



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Industry Solutions*

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